

FIGURE 1: EDG4 AMINO ACID SEQUENCE

1 10 20 30 40 50
 MVIMGQCYNETIGFFYNNSGKELSSHWRPKDVVVVALGLTVSVLVLLTN
 51 60 70 80 90 100
 LLVIAAIAASNRFRHQPIYYLLGNLAAADLFAGVAYLFLMEHTGPRTARLS
 101 110 120 130 140 150
 LEGWFLRQGLLDTSLTASVATLLAIAVERHRSVMAVQLHSRLPRGRVVM
 151 160 170 180 190 200
 IVGVVVAALGLGLLPAHSWHCLCALDRCSRMAPLLSRSYLAVWALSSLLV
 201 210 220 230 240 250
 FLLMVAVYTRIFFYVRRRVQORMAEHVSCHPRYRETTLSLVKTVVILGAF
 251 260 270 280 290 300
 VVCWTPGOVVLILLDGLGCESC NVLAVEKYFLLLAEANSLVNAAVYSCRDA
 301 310 320 330 340 350
 EMRRTFRRLCCACLRQSTRESVHYTSSAQGGASTRIMLPENGHPLMTPP
 351 360 370 380
 FSYLELQRYAASNKSTAPDDLWVLLAQPNQOD

FIGURE 2: EDG4 NUCLEOTIDE SEQUENCE

1	ggcacgaggc	gccggggccat	gggcctcgag	cccgccccga	acccccgcga	gcccgccttg
61	tctgcggcgt	gactggaggc	ccagatgggtc	atcatggggcc	agtgtacta	caacgagacc
121	atcggcttct	tctataacaa	cagtggcaaa	gagctcagct	cccactggcg	gcccgaaggat
181	gtggctcgtg	tggcactggg	gctgaccgtc	agcgtgctgg	tgtgtctgac	caatctgctg
241	gtcatagcag	ccatcgccctc	caaccgcgcg	ttccaccagc	ccatctacta	cctgctcggc
301	aatctggccg	cggctgacct	cttcgcgggc	gtggcctacc	tcttcctcat	gttccacact
361	gggtccccga	cagcccgact	ttcacttgag	ggctgggtcc	tgcggcaggg	cttgctggac
421	acaagcctca	ctgcgtcggg	ggccacactg	ctggccatcg	ccgtggagcg	gcaccgcagt
481	gtgatggccg	tgcagctgca	cagccgcctg	ccccgtggcc	gcgtgggtcat	gctcattgtg
541	ggcgtgtggg	tggctgcccc	gggcctgggg	ctgctgcttg	cccactcctg	gcaactgctc
601	tgtgccctgg	accgctgctc	acgcctggca	ccccgtgcca	gcccgtccta	tttggccgtc
661	tgggctctgt	cgagcctgct	tgtcttccctg	ctcatgggtg	ctgtgtacac	ccgcattttc
721	ttctacgtgc	ggcggcgagt	gcagcgcctg	gcagagcatg	tcagctgcca	ccccgcctac
781	cgagagacca	cgctcagcct	ggtcaagact	gttggtcatca	tcctgggggc	gttcgtgggc
841	tgctggacac	caggccaggt	ggtactgctc	ctggatgggt	taggctgtga	gtcctgcaat
901	gtcctggctg	tagaaaagta	cttcctactg	ttggccgagg	ccaactcact	ggtcaatgct
961	gctgtgtact	cttgccgaga	tgttgagatg	cgccgcacct	tcgcgcgcct	tctctgctgc
1021	gcgtgcctcc	gccagtcac	ccgcgagctc	gtccactata	catcctctgc	ccagggaggt
1081	gccagcactc	gcacatcatg	tcccgcgaga	ggccacccac	tgatgactcc	acccttttag
1141	taccttgaac	ttcagcggta	cgcggcaagc	aacaaatcca	cagcccctga	tgacttgtgg
1201	gtgctcctgg	ctcaacccaa	ccaacaggac	tgactgactg	gcaggacaag	gtctggcatg
1261	gcacagcacc	actgccaggc	ctccccaggc	acaccactct	gcccagggaa	tgggggcttt
1321	gggtcatctc	ccactgcctg	ggggagtcag	atgggggtgca	ggaatctggc	tcttcagcca
1381	tctcaggttt	aggggggtttg	taacagacat	tattctgttt	tcactgcgta	tccttggtaa
1441	gccctgtgga	ctggttccctg	ctgtgtgatg	ctgagggttt	taagggtggg	agagataagg
1501	gctctctcgg	gccatgctac	ccggtatgac	tgggtaatga	ggacagactg	tgagaccccc
1561	atctacctga	gtctgattct	ttagcagcag	agactgaggg	gtgcagagtg	tgagctggga
1621	aaggtttgtg	gctccttgca	gcctccaggg	actggcctgt	ccccaataga	attgaagcag
1681	tccacgggga	ggggatgata	caaggagtaa	acctttcttt	acactcaaaa	aaaa

FIGURE 3: EDG5 AMINO ACID SEQUENCE

1 10 20 30 40 50
MGS LYSE YLNP NKVQ EHYNYTKETLETQETT SROVASAFIVILCCAIVVE
51 60 70 80 90 100
NLLVLI AVARN SKFHS AMYLF LGNLA ASDLLAGVAFVANTLLSGSVTLRL
101 110 120 130 140 150
TPVQWFAREGSASITLSASVFSLLAIAIERHVAIAKVKLYGSDKSCRMLL
151 160 170 180 190 200
LIGASWLISLVLGGLPILGWNCLGHLEACSTVLPLYAKHYVLCVVTIFS
201 210 220 230 240 250
ILLAIVALYVRIYCVVRSSHADMAAPQTLALLKTVTIVLGVFIVCWLPAF
251 260 270 280 290 300
SILLLDYACPVHSCPILYKAHYFFAVSTLNSLLNPVIYTWRSRDLRREVL
301 310 320 330 340 350
RPLQCWRPVGVGQRRRVGTPGHLLPLRSSSSLERGMHMPSTPTFLEGN
351
TVV

FIGURE 4: EDG5 NUCLEOTIDE SEQUENCE

1 atgggcagct tgtactcgga gtacctgaac cccaacaagg tccaggaaca ctataattat
61 accaaggaga cgctggaaac gcaggagacg acctcccggc aggtggcctc ggccttcac
121 gtcacccctc gttgcgccat tgtggtggaa aaccttcttg tgctcattgc ggtggccga
181 aacagcaagt tccactcggc aatgtacctg tttctgggca acctggccgc ctccgatcta
241 ctggcaggcg tggccttcgt agccaatacc ttgctctctg gctctgtcac gctgaggctg
301 acgcctgtgc agtgggtttgc ccgggagggc tctgcctcca tcacgctctc ggcctctgtc
361 ttcagcctcc tggccatcgc cattgagcgc cacgtggcca ttgccaaggt caagctgtat
421 ggcagcgaca agagctgccg catgcttctg ctcatcgggg cctcgtggct catctcgtg
481 gtcctcggtg gcctgcccac ccttggtcgg aactgcctgg gccacctcga ggcctgctcc
541 actgtcctgc ctctctacgc caagcattat gtgctgtgcg tggtgaccat cttctccatc
601 atcctgttgg ccatcgtggc cctgtacgtg cgcactact gcgtgggtccg ctcaagccac
661 gctgacatgg ccgcccgcga gacgctagcc ctgctcaaga cggtcaccat cgtgctagga
721 gtctttatcg tctgctggct gcccgccctc agcatcctcc ttctggacta tgcctgtccc
781 gtccactcct gccgatcct ctacaaagcc cactactttt tcgcccgtct caccctgaat
841 tccctgctca accccgtcat ctacacgtgg cgcagccggg acctgcggcg ggaggtgctt
901 cggccgctgc agtgcctggc gccgggggtg ggggtgcaag gacggaggcg ggtcgggacc
961 ccgggccacc acctcctgcc actccgcagc tccagctccc tggagagggg catgcacatg
1021 cccacgtcac ccacgtttct ggagggaac acggtggtct ga

FIGURE 5: EST No. AA419064

GGGCCATGGCTCGAGCCGCCCGACCCCCGCGAGCCCGCCTTGTCTGCGGCGTGACTGG
AGGCCAGATGGTCATCATGGGCCAGTGCTACTACAACGAGACCATCGGCTTCTTCTATA
ACAACAGTGGCAAAGAGCTCAGCTCCCACTGGCGGCCCAAGGATGTGGTCGTGGTGGCAC
TGGGGCTGACCGTCAGCGTGCTGGTGCTGCTGACCAATCTGCTGGTCATAGCAGCCATCG
CCTCCAACCGCGCTTCCACAGCCCATCTACTACCTGCTCGGCAATCTGGCCGCGGCTG
ACCTCTTCGCGGGCGTGCTGCTACCTCTTCCTCATGTTCCACACTGGTCCCCGCACAGCCCC
ACTTTCACCTTGAGGG